FCI 2026

10 Sep 2026 - 11 Sep 2026

CONFERENCE PROGRAMME

Thursday, 10th September 2026

08:00	**REGISTRATION**
09:00	**INAUGURAL SESSION**
09:00	**Introduction to Glostem** **Tavleen Thakur** , Associate Manager , Glostem Private Limited , India
09:05	**Welcome Address** **Sanjay Bajaj** , CEO & MD , Glostem Private Limited , India
09:10	**Address by President, Flow Chemistry Society** **Timothy Noel** , Full Professor & Chair Flow Chemistry , University of Amsterdam , The Netherlands
09:15	**Honoring Speakers, Sponsors and Exhibitors.**
09:30	**TECHNICAL SESSION 1 — Advanced Reactor Technology & Flow Synthesis**
09:35	**Advancing Flow Chemistry through New Reactor Designs and UV-LED Modules** **Marcus Baumann** , Full Professor, Organic Chemistry , University College Dublin , Ireland In this talk we will highlight pre-commercial 3D-printed stainless steel reactors and their applications across a number of industrially relevant chemical transformations including exothermic and mixing sensitive reactions. The value of this approach including performance comparison to standard plug flow reactors will be discussed.

10:05	**The Continuous Advantage: From Molecule to Manufacturing - Building Industrial Continuous Manufacturing Capability Through Advanced Flow Reactor Technology, Process Development and Engineering Scale-up** **Eric Wu** , General Manager , Corning Advanced Flow Pharmaceutical Technology (Suzhou) Co., Ltd. , China This presentation will discuss how industrial continuous manufacturing can be successfully implemented through the integration of advanced reactor technologies, science-based process development, engineering scale-up, and manufacturing execution. Drawing upon more than two decades of Corning's experience in continuous processing and numerous industrial deployment projects worldwide, the presentation will highlight the key factors that determine successful commercialization.
10:35	**Tea/Coffee Break**
11:10	**TECHNICAL SESSION 2 — Managing Complexity in Continuous Flow**
11:15	**Flash Synthetic Chemistry Guided by Flow Microreactor Research** **Aiichiro Nagaki** , Professor , Hokkaido University , Japan Various chemical reactions using highly reactive short-lived organolithium species that are difficult or even impossible to perform in batch processes can be accomplished in flow microreactors using space integration of reactions. In this presentation, we slow our recent results to flash synthetic chemistry guided by flow microreactor research.
11:45	**Adapting to Physical & Dynamic Complexity in Flow Processes: A Modeling Approach** **Sreepriya Vedantam** , Senior Principal Scientist , CSIR-IICT, Hyderabad , India This talk presents a modelling approach for adapting to physical and dynamic complexity in flow processes. The approach integrates fundamental principles of chemical engineering with modelling strategies including the Computational Fluid Dynamics models & integrated models to capture evolving flow & process behaviour. Emphasis is placed on identifying dominant physical mechanisms, updating model parameters using process information, and balancing model fidelity with computational cost.
12:15	**How to Work with Solids in Flow? Scaling Mechanochemistry to Multikilogram Scale** **Christian Oliver Kappe** , Professor , University of Graz , Austria In this presentation, we demonstrate that solvent-minimized amide bond formation (including the synthesis of peptides) can be translated into an industrially relevant continuous flow process using a commercially available laboratory-scale agitator bead mill (1-3). Comparison experiments using twin-screw extruders will also be presented. 1. Review: Ötvös, S. B.; Kappe, C. O. *Chim. Oggi* **2026**, *44(2)*, 8 2. Caboni, P. et al. *Green. Chem.* **2026**, *28*, 2049 3. Banderob, K.; Roth, P.; Caboni, P.; Kappe, C. O.; Ötvös, S. B. *Org. Process Res. Dev.* **2026**, 30, in press.
12:45	**Group Photo**
13:00	***Lunch***
14:00	**TECHNICAL SESSION 3 — Sustainable & Safe Flow Chemistry**

14:05	**Flow-Engineered Green Manufacturing with AmarFLO™: Case Studies in Fine Chemicals and Pharmaceutical APIs** **Chandrakanth Gadipelly** , Co-founder & Head – Flow Technology , Amar Flow Laboratory , India The pharmaceutical case studies span five representative transformations: slurry-capable multiphase hydrogenation of a high-volume intermediate with near-complete conversion, high selectivity, and improved hydrogen utilization; mixed-acid-free nitration of an advanced aromatic intermediate, eliminating sulphuric acid waste and reducing neutralization and corrosion burden; intensified cyanoacetate–amine condensation, replacing a prolonged batch operation with short residence-time processing, improved impurity control, and lower solvent load; continuous hydrolysis of a protected intermediate, compressing multi-day batch processing to a few hours while maintaining high purity; and controlled heteroaromatic oxidation enabled by enhanced gas–liquid mass transfer and modular reactor design. A turnkey selective oxidation case study demonstrates continuous conversion of cyclohexene-to-cyclohexene oxide using in situ peracetic acid generation Together, these case studies demonstrate how AmarFLO™ platforms transform green chemistry intent into industrially actionable flow manufacturing: safer chemistry, sharper selectivity, lower waste, reduced PMI/E-factor, and scalable process control.
14:35	**Continuous Flow Innovations for Managing Hazardous Chemistry: Advancing Industrial Safety and Sustainability** **Lalit Kumar** , Head – Flow Technologies , Aarti Pharmalabs Ltd , Mumbai , India This presentation explores cutting-edge innovations in flow chemistry designed to mitigate synthetic risks while improving process sustainability and atom economy. Through real-world case studies, we will examine how continuous flow reactors allow chemists and engineers to safely perform and tame hazardous chemistry, such as azidation, fluorination, metalation with organolithium reagents, and large-scale hydrogenation. Attendees will gain practical insights into replacing high-volume hazard risks with intensified, zero-harm continuous manufacturing strategies.
15:05	**TECHNOLOGY SPOTLIGHT PRESENTATIONS**
15:10	**Beyond Scale-Up: Practical Engineering of Continuous Flow Reactors from Lab to Industry** **Abhijeet Prabhakarrao Kulkarni** , Managing Director and CEO , FlowRHEX - Proburgeon , India
15:25	**Continuous Hydrogenations and other down processes** **Vijendra Singh** , India Sales Manager , Zaiput Flow Technologies , India
15:40	**The Continuous Advantage: From Plan to Plant - Unlocking Asset-Light Chemical Manufacturing with Advanced Flow Reactors** **Chandrakant K Sethia** , Head – Business development & Applications Engineering , Corning - AFR Technologies , India
15:55	**Tea/Coffee Break**
16:25	**Continuous Manufacturing Process Systems** **Aniruddha Parab** , Deputy General Manager , GMM Pfaudler Ltd , India
16:40	**Engineering Continuous Flow Processes: From Process Development to Commercial Manufacturing** **Makarand Pimplapure** , Founder & Managing Director , MakSpeed Technologies , India

16:55	**From Lab to Production: Solving Multiphase Mixing Challenges with SpinPro Reactor Technology** **Nikhil Dhage** , Manager , Flowid , India
17:10	**Continuous Flow Reactors in Accelerated Pharmaceutical Manufacturing – Concepts and Applications of the Ehrfeld ART® Plate Reactor in GMP Production** **Marc-Oliver Piepenbrock** , Head of Process Development , Ehrfeld Mikrotechnik GmbH , Germany
17:25	**From Chemistry to Continuous Manufacturing: Flow Reactor Technologies and Process Development Capabilities at Amar** **Darshan Chheda** , Assistant Manager-Business Development division , Amar Equipment , India
17:40	**EXHIBITION & NETWORKING**
18:40	**BREAK**
19:30	**ACTIVITIES & GALA DINNER**

Friday, 11th September 2026

08:45	**AWARD PRESENTATIONS**
08:45	**Presentation 1 (Young Scientist Award) : Shrinivas Jahagirdar, University College Dublin, Ireland**
09:00	**Presentation 2 (Young Scientist Award) : Francis Matota Mathe, Nelson Mandela University, South Africa**
09:15	**Scientist Excellence Award Presentation : Hannes P. L. Gemoets, co-founder, Halen Technologies**
09:35	**TECHNICAL SESSION 4 — From Laboratory to Industrial Scale**
09:40	**Flow Chemistry from Laboratory to Kilo-Tonn Scale-Up** **Nikolay Cherkasov** , Managing Director , Stoli Chem , UK We discuss how to reconcile (i) kilotonne-a-year scale up, (ii) flow chemistry with the natural reduction in surface area, and (iii) increasing risks, quality requirements, unexpected uncertainties of production-scale environment. In collaboration with Robinson Brothers (UK), we piloted flow production on 2 processes
10:10	**Industrializing Flow Chemistry: Real-World Case Studies** **Karunanidhi G** , Deputy General Manager , Anthem Biosciences Pvt Ltd , India Beyond the chemistry, the talk highlights the equipment choices, safety case-building, and — critically — the management decisions that acted as the true catalyst, lowering the organizational activation energy needed to move these processes from bench to plant. Attendees will leave with a practical framework for spotting which hazardous chemistries are strong flow candidates, and what it actually takes to industrialize them.
10:40	**Tea/Coffee Break**
11:10	**TECHNICAL SESSION 5 — Smart Flow Chemistry: AI, ML & PAT**

11:15	**Self-driven labs: Process optimization enabled by machine learning** **Srividya Ramakrishnan** , Global Head - CDMO DS , Aurigene Pharmaceutical Services , India This talk will present a couple of case studies on this approach to optimize reactions in flow as well as in-silico optimization guided by accurate reaction kinetic models.
11:45	**AI-Driven Self-Optimizing Organometallic and Electrochemical Flow Synthesis Platforms and Informed Machine-Learning Models for Nanodrug Manufacturing in Microfluidic Systems** **Iryna Savych** , Head of Division Flow and Formulation Chemistry , Fraunhofer Institute for Microengineering and Microsystems IMM , Germany Fraunhofer IMM has played a key role in developing flow reactors and micromixers that support the transi-tion from batch to continuous processing, enabling seamless scale-up from laboratory research to industrial production. Major focus areas include the continuous synthesis of Grignard reagents, photochemistry, cas-cade reactions, electrochemical synthesis, and micro- and nanoencapsulation. Recent research within the AI4SmartFlow project at Fraunhofer IMM has established AI-driven self-optimizing flow synthesis platforms for Grignard reagent synthesis and automated electrochemical reaction screening to accelerate process in-tensification and shorten development cycles.
12:15	**INTERACTIVE SESSION**
13:00	**LUNCH & NETWORKING**
14:00	**TECHNICAL SESSION 6 — Continuous Manufacturing - Strategies & Case Studies**
14:05	**Lab to Production Scale of Continuous Flow technology Challenges, approach and successful realization** **Satyanarayana Thirunahari** , General Manager - Process Safety & Engineering , Laurus Labs , India The challenges encountered, approaches adopted, and learnings gained during the transition from laboratory development to the successful commercialization of flow chemistry capabilities will be presented through case studies involving **diazo–Sandmeyer reactions, oxidation, hydrogenation, and ester reduction processes**.
14:35	**The (Non)Sense of End-to-end in Flow** **Wouter Stam** , Founder and CEO , Flowid , India In this presentation we will examine two key questions: is full end-to-end continuous manufacturing even technically feasible for all involved process steps, including work- up and downstream operations. And, if the answer turns out to be yes, should it then also be implemented as such? Beyond the aspects of chemistry and engineering, other decisive factors such as return on investment, plant organization and logistics, operational flexibility and even company politics may play a critical role.

15:05	**Strategic Continuous Manufacturing: From Petrochemicals to Pharmaceuticals** **Yi Jiang** , Founder and CEO , Leapstar Technologies, LLC , USA The talk argues that the next continuous advantage will come not from any single reactor or unit operation, but from strategic capabilities that integrate chemistry, transport phenomena, equipment, automation, process analytics, and AI. As the cognitive layer of continuous manufacturing, AI can support dynamic understanding, predictive control, and continual optimization. Building these capabilities can help India connect petrochemical feedstocks to higher-value pharmaceutical products while strengthening manufacturing competitiveness and supply-chain resilience.
15:35	**Tea/Coffee Break**
16:05	**Indian Success Stories In Flow Chemistry**
16:10	**Continuous Flow Process Development: Accelerating the Lab-to-Plant Journey** **Chander Singh Bohara** , Deputy General manager , Sun pharma , India The talk will cover the progression from initial laboratory experiments through process optimization and scale-up to plant execution. Emphasis will be placed on the practical tools and strategies used for scale-up, including residence-time studies, mixing and heat-transfer assessment, reactor selection and sizing, flow-rate optimization, and process safety considerations. The presentation will also discuss challenges encountered during scale-up and plant implementation, including equipment limitations, handling of reaction streams, maintaining consistent process performance, and translating laboratory conditions into a robust manufacturing operation. The case study demonstrates how a combination of chemistry, engineering principles, and cross-functional execution can bridge the gap between laboratory innovation and practical API manufacturing
16:30	**Flow Chemistry in Action - From Laboratory Feasibility to Scale up** **Lalit Tryambak Patil** , Director, Opeations and Continuous manufacturing , Sai Life Sciences Ltd , India This presentation describes the industrial implementation of a continuous photochemical process and Plug Flow Reactor technology. The case study covers the journey from laboratory development to pilot and manufacturing scale, highlighting process optimization, reactor selection, scale-up strategy, safety considerations, and manufacturing at scale. The presentation also shares key technical learnings and demonstrates how continuous photochemistry enabled enhanced productivity, improved safety, and robust manufacturing performance.
16:50	**Process Intensification in Flow via De-Bottlenecking Batch Process Challenges** **Amit Srivastava** , Associate Director Global MS&T , Teva API (TAPI) , India Process intensification in flow is a mechanochemical strategy that transitions manufacturing from traditional batch reactors to continuous flow systems to achieve a smaller, safer, and highly efficient footprint. By maximizing heat and mass transfer within small microchannels or microreactors, this approach drastically improves chemical kinetics, reaction yields, and safety.
17:10	**VALEDICTORY FUNCTION**